

INGWERK GmbH

About this organisation

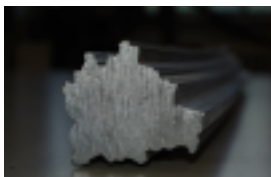
Machine translation

This organisation has been machine-translated based on data provided in German.

INGWERK GmbH supports companies in the metalworking industry with technological issues in the fields of materials, process and computer-aided engineering and sensor technology. The INGWERK GmbH team is made up of engineers specialising in materials science, mechanical engineering, production technology, computer science and industrial engineering in order to be able to deal with complex customer issues.

INGWERK GmbH focuses on lightweight construction based on metallic lightweight materials as well as metal-ceramic, metal-polymer and metal-carbon fibre composites. The company's services include the development of lightweight alloys and process chains for the processing of metallic lightweight materials.

Gustav-Meyer-Allee 25
13355 Berlin
Berlin
Germany
www.ingwerk.com



INGWERK

Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

Up to 9

Turnover

Up to €2m

Funding

n/a

INGWERK GmbH

About this organisation

Main areas covered Material engineering, Process engineering, Computer Aided Engineering, Small series production, Innovation consulting

Infrastructure Material databases, Metal forming, Mechanical testing, Metallography, Simulation

Certifications

Keywords Lightweight material construction, Aluminium, Magnesium, Titanium, Metallic foams

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Semi-finished parts, Software & databases, Materials	✓	✓	✓
Services & consulting Training, Consulting, Testing and trials, Funding, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Optimisation, Processes, Materials	✓	✓	✓
Plant construction & automation Automation technology	✓	✓	✓
Recycling technologies Material separation, Recycling	✓	✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Plasma process	✓	✓	
<i>Fibre composite technology</i>			
Forming Impact extrusion, Compression moulding, Forging, Extrusion moulding, Deep-drawing, Fluid active media based forming, Rolling	✓	✓	✓
Joining Welding	✓	✓	✓
Material property alteration Mechanical treatment, Thermochemical treatment, Thermomechanical treatment, Heat treatment	✓	✓	✓
Primary forming Extrusion, Sintering	✓	✓	✓
Processing and separating Drilling, Turning, Milling, Sawing, Grinding	✓	✓	✓
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Open-pore	✓	✓	✓
Composites Metal-fibre-polymer composite, Metal-ceramic composite, Metal matrix composite, Nanocomposites, Laminates	✓	✓	✓
<i>Fibres</i>			
Functional materials Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	✓	✓	✓
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	✓
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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